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**TITLE: STUDY OF POST-SEPARATION HIV-POSITIVE SERVICEMEN LOST
LOST TO FOLLOW-UP**

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FOREWORD

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**PROGRESS REPORT TO DEPARTMENT OF THE ARMY, U.S. ARMY MEDICAL
RESEARCH AND DEVELOPMENT COMMAND**

October 29, 1993

Study of Post-Separation HIV-Positive Servicemen

Lost to Follow-up

(U.S. Army Medical R&D contract DAMD17-91-Z-1040)

During the second year of the study of HIV-positive service members lost to follow-up (LTF), data updating clinical and vital status information were obtained, and details are provided below. On 27 July 1993, approval for a two-year no cost extension to September 1995 was obtained from the Army; an outline of projected extension activities is also described.

Data had been received by the Medical Follow-up Agency (MFUA) from Walter Reed Army Institute of Research (WRAIR) at 3 time points from the beginning of the project through the fall of 1992. A preliminary review of the study subjects in these three data batches indicated that the potential study population varied between the batches. The first batch was received in November 1991, the second was received the beginning of 1992, and the third was received the end of October 1992. On 3 December 1992, we met with Army investigators to establish the current status, progress and future plans of the study, as well as to discuss the formulation of the final data set. At this meeting, a decision was made to assemble a data set, as of the beginning of December 1992. Any service member in the database sent to MFUA on that date would be followed in the upcoming year, with no additional names added to the list. As the proposal agreement stated that follow-up would occur on new losses for a year after the study began, the decision to finalize the data set at the time of the meeting was consistent with the proposal.

The final data set was received by the MFUA on 7 December 1992, with a study population of 568 service members (547 men and 21 women). By definition of the Army, a

service member was considered LTF if he/she was retired from the Army, and either had not been seen by an Army facility within 60 days of diagnosis, or had not been seen by an Army facility for HIV staging for more than 12 months.

At the December meeting, a decision was made with the Army investigators as to which data entries would be useful for their purposes from the military and Department of Veterans Affairs (VA) hospitalization tapes. From the VA, the Patient Treatment Files (PTF) data would be obtained; similar data are available from the Army Individual Patient Data System (IPDS), Navy and Air Force. Names of contact persons for obtaining data from the service branches were also obtained at this time.

RECORDS FOLLOW-UP: MORTALITY

Several methods were used to determine whether study subjects were deceased; these methods included the National Death Index, access to the VA Beneficiary Identification and Records Locator Sub-System (BIRLS), and review of individual VA claims folders. The number of deaths by year of death and source of mortality information is shown in Table 1. When the total mortality experience of the cohort, is evaluated as of June 1993 (which includes TARGET results from March 1993) and as of September 1993 (which includes TARGET results from August 1993), it appears that mortality is increasing over time (Table 2). Each of the three methods used for determining mortality is described below.

NATIONAL DEATH INDEX (NDI)

An application to the National Death Index (NDI) was submitted on 16 December 1992, and covered a period of time from 1985-1991 for mortality searches. The application was approved, and the NDI search was done on 26 March 1993, with data received on those potential matches on 9 April 1993. The 568 study subjects were compared by computer for exact Social Security Number (SSN), name and date of birth match, with fewer matching criteria as: SSN and full name; SSN and last name; seven digits on SSN, full name and date of birth; and finally hand screening. A total of 14 death matches were identified through the NDI; 6 were exact matches and 8 matched on SSN and full name. As mortality in the

cohort is increasing after 1991, NDI may not be the most useful overall method for determining deaths. Potentially, contact with the states for death certificates might be facilitated by the introduction of the study to the states through the NDI. It will be possible to evaluate this supposition in the upcoming years of the study, as we have the potential to compare ease of death certificate access between the NDI format and straight contact of the states for deaths found through other mechanisms. The NDI will lag behind a calendar year in terms of completeness; therefore, other methods might be more efficient for determining vital status, as described below.

TARGET ACCESS TO BIRLS

Another method of determining vital status of veterans is through the VA Beneficiary Identification and Records Locator Sub-System (BIRLS), with a method called TARGET, allowing for interactive, individual access of veterans who have filed for any type of claim through the VA. The first session was completed in March of 1993. At that time, of the 568 eligible subjects, 550 were found in BIRLS, 9 records indicated a "sensitive" status, 5 records had no status, and 4 records were not found. The five records with no status were later located in BIRLS, resulting in a total of 555 of 568 (98%) records located in this system. The 9 "sensitive" cases will be examined more completely to determine the nature of the "sensitive" status. From this initial search, 61 study subjects were identified as deceased through BIRLS.

As mortality from the NDI was only available through 1991, deaths from the same period (1985-1991) were compared to the TARGET results. There was one death in 1987 from the NDI search which has not appeared in the BIRLS system. Additionally, there was one death in 1991 which showed in the TARGET, but did not appear in the NDI. This death occurred at the end of 1991, (12/29/91), and was apparently missed for inclusion with the 1991 NDI mortality. As TARGETing is potentially more efficient, allows for more current determination of vital status, and can be repeated at regular intervals, this is the preferred method of determining vital status. However, if obtaining death certificates from the states is facilitated by the NDI mechanism, then for deaths which have occurred in the past, where no

death certificate has been obtained, the NDI matching may also be beneficial.

In August of 1993, the vital status of those previously assumed to be alive was checked in the BIRLS system. There were an additional 42 LTF found to be deceased through BIRLS at this time. Therefore, additional periodic checks of the BIRLS records will be done to continually update the mortality.

For those determined through BIRLS to be deceased, but with no death certificate in the claims folder, death certificates will be requested from the states.

CLAIMS FOLDERS

Originally, a request was sent to the folder location indicated on the TARGET search, to obtain 115 folders for service members with no address information available through TARGETing, in order to determine whether a more recent address for these individuals was in fact available. In the process of reviewing the folders, two things became apparent: 1) in some instances, recent deaths had not been posted in the BIRLS, as a death certificate was in the folders for a person not previously known to be deceased (n=1 at time of first mortality assessment between March and June 1993 and n=5 as of September 1993); and 2) it appeared that there was information available in some of the records on staging and disease development which could be used to update staging, when veterans applied for disability and received a VA disability assessment examination.

Therefore, a decision was made to request folders for all individuals who had been found in BIRLS (n=555) in order to verify vital status and to abstract any medical information (described below in further detail). Beginning in June 1993, folders were requested for all individuals, in order to supplement other mechanisms of obtaining vital status and medical information.

For some who are deceased, a death certificate is available in the folder. Of the 105 deceased, 57 folders were available (54%); of those deceased with folders available, 39

(68%) death certificates were obtained. This, however, is only 37% of all deceased. There does not appear to be a pattern as to when or where deaths occur, for which death certificates are available. If a death certificate is present, no additional effort is needed to obtain one from the state. The remaining certificates for those known to be deceased will be requested through the states, as mentioned above in the NDI and TARGET sections. Folders will continually be requested for those TARGETed as deceased, as a first attempt to obtain a death certificate.

DEATH CERTIFICATE CODING

Death certificates are being coded by a certified nosologist, where a cause of death is available. As additional certificates are received, they will be coded by the same individual. A preliminary tabulation of the death certificate data is presented in Table 3.

RECORDS FOLLOW-UP: MORBIDITY

Morbidity information was obtained from data on VA and service branch hospitalizations, through matches of SSN. When a match was available, the initial data included all hospitalizations, whether AIDS-related or not, as well as hospitalization occurrences at any point in time. Additional morbidity data were also obtained from the VA claim folders. Since the purpose of the follow-up activity is to identify additional information not previously available to the Army researchers, of interest to the report and data updating were only those hospitalization and examination occurrences after the date last seen by the Army.

A list of "critical diagnoses" (Table 4) was developed to be consistent with the Army diagnostic codes which could be used to further stage patients. In evaluating the hospitalization occurrences for each of the data sources utilized below, the information originally obtained was reduced to include only hospitalizations after the date last seen by the Army, for diagnoses that could be used for HIV staging.

PATIENT TREATMENT FILE (PTF)

Information on hospitalizations occurring within the VA system was obtained from the PTF data between 1985 and 1993, up to the point when the request was made. The data were requested on 11 March 1993; data were received on 26 May 1993. Of the 568 in the study, 198 (35%) had at least one hospitalization in a VA facility at any time.

Approximately 46% of these hospitalizations (n=91) were after the date last seen, for a "critical diagnosis;" this represents additional information from PTF which can be used for staging on approximately 16% of the total study population.

ARMY - INDIVIDUAL PATIENT DATA SYSTEM (IPDS)

Information on hospitalizations within Army medical centers was available from the IPDS data. Permission for access to these data was requested on 14 January 1993; data were requested on 5 March 1993. Data were received by the MFUA on 5 May 1993 in 2 sections, as the data collection system had been redesigned. However, comparable data could be obtained from both data sources. As with the PTF data, critical diagnoses occurring after the date last seen were noted for contribution to staging information. A total of 558 of 568 matched the Army data files for ANY hospitalization. Only 16% of the 558 were for critical diagnoses after the date last seen. However, this (N=92) group represents a sub-group of the data set which potentially should have been identified by the Army researchers, as these data are available to the WRAIR researchers, as well. A printout of available information on these individuals will be forwarded to the Army researchers.

AIR FORCE HOSPITALIZATION DATA

Permission to access hospitalization data from the Air Force was requested on 16 December 1992, the data were requested on 5 March 1993, and received on 26 April 1993. A total of 31 hospitalization matches with the study population was available. Of the 31, only 3 matches had data for critical diagnoses for staging occurring after the date last seen. This represents additional information from the Air Force on less than one percent of the study subjects.

NAVY HOSPITALIZATION DATA

Permission to access hospitalization data from the Navy was requested on 16 December 1992, the data were requested on 25 March 1993, and received on 13 August 1993. We had a great deal of difficulty obtaining the data from the Navy, primarily because of concerns on their part with respect to the sensitive nature of the data. When the data were finally received by MFUA, there were only 4 matches for any hospitalization of study subjects, and only one of the matches was a study subject with an updated, staging critical diagnosis.

VETERANS' ADMINISTRATION (VA) MEDICAL RECORDS

Medical records of hospitalizations within the VA have not been requested in this study year. During the extension period of the study, the issue will be re-visited with the Army collaborators concerning the value of requesting the actual medical records from VA hospitals to update data on T-cell counts or staging, as well as other potentially staging critical diagnoses.

CLAIMS FOLDERS

As mentioned above, folders were requested for study participants who had been located through BIRLS, as the TARGET results indicates where an individual's folder is located. A total of 357 of the 555 potentially available folders have been received since the request was submitted, up to the the end of September; this represents 64% of the study population. Quantity and quality of medical information varies considerably. Some medical record information was available in the folder if copies from other facilities had been requested by the VA. There was also information available in some folders from the disability rating examinations conducted by the VA, generally on an outpatient basis. Whenever possible, information on critical staging diagnoses, T-cell counts and Walter Reed staging was abstracted. This information has been added to the data submitted to the Army.

In the extension study period, a quality assurance activity will be undertaken to verify the medical information from the folders by an independent abstractor.

RECORDS FOLLOW-UP: CDC AIDS REGISTRY

As part of the original proposal, an attempt was to be made to obtain additional AIDS information on the positive HIV population from the CDC AIDS registry. On 5 February 1993, a conversation with Dr. John Ward at CDC who is in charge of the AIDS registry, resulted in the decision to not pursue this path to additional information. Dr. Ward was cooperative in providing us with the information on what would potentially be required, if we wanted access to this registry, which contained in February 260,000 persons with AIDS per CDC definition. First, a combination of letters (SOUNDEX), date of birth and gender are used to indicate a registrant. The SOUNDEX is not specific, and would lead to very poor matching. Secondly, the access to these names is extremely tightly guarded. The state or local health departments actually have the names of the registry participants, and Dr. Ward said that there are extremely limited ways to gain information from the states. The states cooperate with CDC only because protection to the participants is guaranteed. Permission to obtain any information, including poorly matched information, would be required from the individual states. This was not encouraging as a method for tracking the patient population. Therefore, following discussions with the Army researchers, no further action will be taken to obtain information from the CDC.

CONTACT AND FOLLOW-UP OF HCB'S

At the present time, the contact, interview and re-examination of HIV patients LTF is not part of the study plan. This decision was made by the Army collaborators and relayed to the MFUA at the April meeting. Therefore, there has been no activity related to this aspect of the study during this year.

NIOSH CONTACT

In the original study plan, it was anticipated that recent address information from the Internal Revenue Service (IRS) would be available through NIOSH, because of a law which allows for distribution of this information to researchers studying occupational health issues. In the previous study year, contact was made with NIOSH, and although no formal denial

letter was received, the project director at that time was contacted by phone and the request was refused. In explaining the justification for denial, the contact person at NIOSH indicated that the persons making the decision did not believe that HIV was a service-related (that is, occupational) condition.

Therefore, in December 1992, MAJ Pete Peterson at the Pentagon was contacted regarding the line of duty connection for HIV positive service members. Although there is no formal documentation which specifically states that HIV is a line of duty connected illness, if a person who tests negative before entering the service is diagnosed with HIV "while wearing a uniform," the diagnosis is determined by presumption to be LOD connected. Regulations which pertain to HIV positive individuals in the service were sent to the MFUA, and included in a second request sent to NIOSH 21 December 1992. By March, no action had been determined, and in fact, NIOSH claimed never to have seen the re-submitted request. Therefore, on 23 March 1993, a second request was sent to ask for information from the IRS. In June of 1993, access was refused. More specifics pertaining to reasons for refusal were obtained, and a request was drafted for signature by the Director, WRAIR on 20 July 1993. The request for this signature was denied on advice of SGRD-JA. Therefore, at this time, there is no further plan to pursue contact with NIOSH to obtain addresses from IRS.

DATA MANAGEMENT

Data are maintained in Paradox files within the MFUA, with password-protected access to the databases. A master file with the tracking information pertaining to the individuals in the data set is maintained and updated as new information becomes available. Data are also available from the medical records abstraction and the matches from the hospitalization data. A preliminary merged data set, in ASCII format will be sent to the Army researchers by the beginning of November.

As part of the data management, an anomaly was discovered in the processing of the folder data. It appears that five individuals have no diagnosis of being HIV positive, or any

other indicator of HIV positive status. Information which was available on these 5 individuals will be sent to Army researchers.

An additional inconsistency was noted between records in the coding of the date last seen. For 15 of the study subjects, no T-cell count or stage data were included in the original file received from WRAIR; it was noted that for these 15, the code used for date last seen was a 7-digit, rather than the usual 5-digit code. In the event that some systematic or other noteworthy difference could be detected in these 15, a copy of the data in their record will be forwarded to the Army researchers.

A meeting is planned with the Army researchers for 9 November. At this time, these various apparent anomalies in the database will be discussed, evaluated, and if necessary, corrected.

DATA ANALYSIS AND DISSEMINATION

The final data analysis will be completed at the end of the study extension period. A preliminary analysis of the data currently available will be included with the data set which is sent to the Army researchers. Tables from this preliminary analysis are included in this report (Tables 5 to 9). Included in these tables are a spreadsheet with information which can be used to upgrade staging of the study subjects using diagnostic data available from the various hospitalization tapes and folder abstraction, a table of T-cell and staging updates from the claims folders, frequencies of AIDS related conditions located on the various hospitalization tapes, vital status by gender and vital status by stage at date last seen.

Given that the study will be extended for two years, there are no plans to disseminate findings from the preliminary analysis at this time.

FUTURE PLANS FOR THE STUDY EXTENSION PERIOD

During the study extension period (September 1993-September 1995), several activities have been discussed to extend, as well as enhance, work which is currently underway.

CONTINUE TO DISCUSS STUDY ACTIVITIES WITH THE ARMY

On a regular basis, MFUA and Army researchers will meet to discuss how the MFUA can continue to assist in the process of updating data for (LTF) study subjects. Through these meetings, the Army collaborators can be kept abreast of the progress being made, offer suggestions on the process currently being used, request additional activity which is within the scope of the original intention of updating data for the LTF, and work with the MFUA researchers in joint analysis of the data.

MEDICAL RECORDS FROM VA HOSPITALIZATIONS

Through the PTF data, hospitalization dates which occurred after the date last seen are available for study subjects, as mentioned above. For this report, there were 198 matches, 91 of whom had matches for critical diagnoses which could be used for staging. However, the 108 patients who had no computerized information which could be used for staging might have had information in the actual medical record which could be useful for the staging activity; additional details for the 91 who did have staging diagnoses might also be in the medical record. Therefore, in the extension study period, the MFUA will establish the necessary contact and cooperation with the VA to request these medical records for abstracting. The process required to enable this request will begin in the coming months.

ON-GOING FOLLOW-UP

As the study has been extended for an additional 2 years, the MFUA will continue to follow the cohort members who are in the current data set (N=568), as well as include additional LTF service members provided by WRAIR. Because the mechanisms for gathering information are in place, adding more subjects to the cohort should pose no difficulty. At times mutually convenient to the Army collaborators and the MFUA, the data

set will be augmented to include any additional LTF service members. The final date for adding LTF service members will be December 1994 in order to allow time for obtaining follow-up data, analysis and report preparation.

CONTINUE TO TARGET

As an ongoing activity, the surviving members of the current LTF cohort, and study subjects added to the cohort will be TARGETed for vital status and folder location. Additionally, survivors in the WRAIR data set can also be checked for mortality in the groups which are processed. The TARGETing will take place approximately every 6 months.

DEATH CERTIFICATE REQUESTS

For study subjects determined to be deceased, claims folders will be requested to obtain death certificates, and if necessary, the individual states will be contacted for death certificates. All death certificates will be coded by the same nosologist for cause of death. Death certificates, for those who are deceased in the WRAIR data but not LTF, will also be requested in these batches.

ANALYSIS OF DATA FOR CHANGES AND TRENDS

Once the data have been collected and cleaned, including the original cohort as well as the additional names to be received, they will be analyzed for changes, trends, and differences between those who remained in contact with the Army, compared to those LTF. Collaborative analysis of the data will occur in the last six months of the extended study period.

PROJECTED TIMELINE FOR EXTENDED STUDY PERIOD

1993

November	Preliminary data with updates on LTF to WRAIR Obtain additional study subjects LTF from the Army Begin process of accessing VA medical records
December	Re-submit cohort for PTF matches

1994

January	TARGET cohort members with unknown vital status
July	Obtain additional LTF from Army TARGET cohort members with unknown vital status Re-submit cohort for PTF matches
December	Obtain last batch of LTF from Army

1995

January	Final TARGET of cohort members with unknown vital status
March	Final inclusion of data from all sources
April	Begin data analysis and final report writing
October 26	Submit final report to Army contractors

TABLE 1. NUMBER OF DEATHS BY YEAR AND SOURCE OF MORTALITY INFORMATION

	TARGET	NDI	FOLDER	TOTAL
1987	1	1		2
1988	2			2
1989	1			1
1990	.			.
1991	10			10
1992	35			35
1993	50		5	55
TOTAL	99	1	5	105

**TABLE 2. NUMBER OF DEATHS BY YEAR OF DEATH AS OF
JUNE AND SEPTEMBER 1993**

DEATHS THROUGH:	JUNE	SEPTEMBER
BIRLS CHECKED:	MARCH	AUGUST
1987	2	2
1988	2	2
1989	1	1
1990	.	.
1991	10	10
1992	34	35
1993	14	55

**TABLE 3. PRELIMINARY DEATH CERTIFICATE TABULATION
SORTED BY IMMEDIATE CAUSE OF DEATH**

	Immediate Cause (A)	Underlying Due To (B)	Underlying Due To (C)	
AIDS or HIV	13	11	10	34
Respiratory Failure	4			4
Cardio-Pulmonary Arrest	3	1		4
Sepsis	3		1	4
P. carinii Pneumonia	2	1	1	4
Pneumonia	2	6		8
Cerebral Infection	1			1
Disseminated Aspergillosis	1			1
Disseminated Herpes	1			1
Disseminated Histoplasmosis	1			1
Disseminated MAI	1	1	1	3
End Stage Renal Disease	1			1
Kaposi's Sarcoma	1	1		2
Metabolic Acidosis	1			1
No Cause Listed	1	13	23	37
CNS Lymphoma		1		1
Cytomegalus Virus Infection		1		1
TOTAL Death Certificates	38	38	38	108

TABLE 4. CRITICAL DIAGNOSTIC CODES UTILIZED FOR STAGES 5 AND 6

CODE	NAME	STAGE
112.0	Oral candidiasis	5
007.2	Cryptosporidiosis, isosporidiosis	6
012-018	Extrapulmonary tuberculosis	6
031 (ALL)	Atypical mycobacteriosis	6
031.0	MAI	6
054 (ALL)	Herpes simplex	6
078.5	Cytomegalovirus	6
112.5	Esophageal candidiasis	6
115 (all)	Histoplasmosis	6
117.5	Cryptococcosis	6
117.9	Disseminated endemic mycosis	6
136.3	Pneumocystis carinii pneumonia	6

TABLE 5. FIRST OCCURRENCE OF STAGING AND NEOPLASM DIAGNOSES FROM HOSPITALIZATION AND FOLDER DATA (* INDICATES MORE RECENT HOSPITALIZATION DATE AVAILABLE, SAME DIAGNOSIS)						
ID	Last seen	Stage	Thrush (6) Date-Source	ICDA (6) Date-Source	Date-Source	Neoplasm
1	May-89	1	12/82 - PTF			
2	Jun-81	2				
3	Oct-88	4				
4	Dec-88	2		054.9 - 11/81 - PTF	9/21/82 - TARGET	
5	Jan-89	5				
6	Feb-81	2	6/82 - IPDS92			
7	Mar-83					
8	Aug-81	1				
9	Jun-80	4	9/80-IPDS92 *			202.83 - 8/80 - IPDS92
9		4				202.80 - 10/80 - IPDS92
9		4				
10	Jan-89	5		078.5 - 9/81 - PTF	1/8/83 - TARGET	
10		5		078.5-10/81-FOLDER		
11	Jul-87	1				
12	May-80	3				
13	Sep-88	4				
14	Jan-81	5				
15	May-88	5		136.3 - 9/80 - IPDS92		
16	Oct-80	3				
17	Jun-81	2				
18	Mar-86	4	2/88 - IPDS88	136.3 - 2/88 - IPDS88		
18		4		130.7 - 10/88 - PTF		
18		4			12/14/88 - TARGET	
18	Jun-80	2				
20	Aug-88	2		054.9 - 11/88 - IPDS88		
21	Jun-88	3				
22	Apr-81	3				
23	Nov-80	5		136.3 - 8/82 - IPDS92		
24	Aug-81	3				
25	Dec-89	3				
26	May-89	3	3/80-PTF *			

26		3	11/89-FOLDER	136.3 - 7/92 - PTF		
27	Jan-89	3				
28	Sep-90	2				
29	Apr-90	4				
30	Oct-90	3		136.3 - 10/92 - PTF		
31	Apr-90	5	2/92 - PTF	130.9 - 2/92 - PTF		
31		5		007.2 - 2/92 - PTF		
31		5		130.7 - 3/92 - PTF		
31		5		078.5 - 5/92 - PTF		
31		5		130.2 - 6/92 - PTF		
31		5		130.0 - 11/92 - PTF		
31		5		007.2-4/92-FOLDER	11/28/92 - TARGET	
31		5		078.5-7/92-FOLDER		
31		5		130.0-130.9-9/92-FOLDER		
32	Jul-87	2				
33	Oct-90	3				
34	Jan-91	4		117.5-12/92-DEATH CERT.	12/29/92 - TARGET	
35	May-90	1				202.81-4/91-IPDS92 *
35		1				201.50 - 5/91 - IPDS92
35		1				202.00 - 5/91 - IPDS92
35		1				201.90 - 7/91 - IPDS92
36	Jan-88	4				
37	Dec-90	3				
38	Jun-91	3				
39	May-89	3	2/91 - PTF	136.3 - 2/91 - PTF		
39		3		031.0 - 3/92 - PTF	8/28/93 - TARGET	
40	Feb-81	2				
41	Jul-91	3				
42	May-80	3		112.5-1/91-FOLDER		
43	Jan-89	5				232.5-5/91-PTF *
44	Feb-88	3	3/92-PTF *			
45	May-91	3		078.5 - 2/92 - PTF		
46	Apr-90	2				
47	Mar-87	2		554 - 3/87 - USAHDS	12/7/92 - TARGET	
48	Jan-80	5		136.3 - 4/91 - PTF		
48		5		054-3/90-FOLDER		

48		5	7/89-FOLDER				
48		5	8/92 - PTF	031.0 - 8/92 - PTF			
48		5		031.0-11/92-FOLDER	12/17/92 - TARGET		
49	Aug-89	4					188.8-7/91-PTF *
50	Oct-89	2					
51	Dec-89	3					
52	Apr-91	5					
53	May-91	5			6/26/93 - TARGET		
54	May-90	2					
55	Oct-87						
56	Apr-91	4					
57	Mar-90	4					
58	Dec-87	5		031.5 - 3/88 - PTF	7/16/88 - TARGET		
59	Nov-90	6		117.5 - 1/91 - IPDS92			
59		6		078.5 - 8/92 - PTF	6/28/93 - TARGET		
60	May-88	5	9/88 - IPDS88				
60		5	4/93-FOLDER	054.3 - 7/90 - PTF			
60		5		130.0 - 1/92 - PTF			
60		5		130.0-130.0-2/92-FOLDER			
61	Mar-87	1	5/87-FOLDER				
62	Jan-89	3					
63	Mar-91	5		136.3 - 5/92 - PTF			
64	Sep-90	5	11/90 - IPDS92				173.9 - 2/91 - IPDS92
64		5					173.8 - 5/91 - IPDS92
64		5					176.4 - 12/91 - PTF
64		5					176.0 - 1/92 - PTF
64		5					197.2 - 8/92 - PTF
64		5		031.0 - 1/92 - PTF			
64		5			8/27/92 - TARGET		176-8/92-FOLDER
65	Dec-80	2					
66	Aug-90	3					
67	Sep-80	5					
68	Jul-80	3					
69	Dec-80	2					
70	Oct-89	3					

71	Jan-89	5	5/82 - PTF			173-3/81-FOLDER
71		5	6/83-FOLDER			
72	May-89	2				
73	Sep-89	5	7/92 - IPDS92			
73		5		054.9 - 7/82 - IPDS92	3/2/93 - TARGET	
74	Nov-89	2				
75	May-90	3				
76	Apr-89	5	9/89-FOLDER			
77	May-89	5		054.9 - 2/91 - IPDS92		
77		5	6/91 - PTF			
77		5		136.3 - 10/92 - PTF		
77		5			11/8/92 - TARGET	
78	Oct-89	3				
79	Jan-90	4				
80	Dec-89	3	9/92 - IPDS92	054.2 - 9/92 - IPDS92		
81	Oct-89	1				
82	Aug-89	2				
83	Feb-91	2				
84	Oct-89	5				
85	Jan-91	4				
86	Jun-91	5	9/91-IPDS92 *			
87	Nov-87	2				
88	Jul-88	5				
89	Sep-89	2				
90	Apr-89	2				
91	Jun-91	3				
92	Aug-90	5				
93	Jun-87		8/87-FOLDER			
94	Jun-90	2	12/92 - IPDS92	054.1 - 12/92 - IPDS92		
95	Apr-91	2				
96	Oct-90	2				
97	May-91	3	8/91 - IPDS92			
97		3	7/92-FOLDER			
98	Apr-90	2				
99	Jun-90	3	3/92 - IPDS92		11/10/93 - TARGET	
100	Jan-91	5				

101	Dec-81	3					
102	Feb-87	5	3/87-IPDS88 *				
103	Sep-81	5					
104	Nov-88	5	4/92 - PTF	130.7 - 4/92 - PTF			
104		5		054.1 - 12/92 - PTF			
104		5		130.0-1/93-DEATH CERT.	1/18/93 - TARGET		
105	Sep-90	3			6/28/93 - TARGET		
106	Jan-89	3	10/89 - IPDS92				
106		3	12/89-FOLDER *				
107	May-90	3		136.3 - 3/92 - PTF			
107		3		117.5 - 3/92 - PTF			
107		3		136.3-3/92-FOLDER			
107		3		31.0-3/93-DEATH CERT.	3/28/93 - TARGET		
108	Nov-88	2					
109	Mar-81	6	1/92 - IPDS92	136.3-1/92-IPDS92 *			
109		6	1/92-FOLDER	078.5 - 1/92 - IPDS92			
109		6		054-1/92-FOLDER			
109		6		078.5-1/92-FOLDER			
109		6					
109		6		136.3-1/92-FOLDER			
110	Jun-91	2			7/21/93 - TARGET		
111	Oct-81	5					
112	Jun-82						
113	Aug-81	6	1/92 - IPDS92	136.3 - 1/92 - IPDS92	4/15/83 - TARGET	176.0 - 8/92 - IPDS92	
114	Feb-81	3					
115	Sep-81	5					
116	Jul-87				12/29/91 - TARGET		
117	Jun-88	5		136.3 - 7/89 - PTF		173.8 - 8/89 - PTF	
117		5			9/1/89 - TARGET		
118	Nov-90	1					
119	Jun-81	2	12/91 - PTF				
119		2		136.3 - 3/92 - PTF			
120	Jun-91	5	4/92 - IPDS92	136.3 - 4/92 - IPDS92		173.8 - 4/92 - IPDS92	
120		5		031.0 - 9/92 - PTF		176.0 - 7/92 - PTF	
120		5		031.9 - 10/92 - PTF		176.1 - 9/92 - PTF	
120		5			11/7/92 - TARGET		

121	Mar-81	2					
122	May-87	3					
123	May-81	1					
124	Mar-90	3	2/93-FOLDER				
124		3		112.5-10/92-FOLDER			
125	Oct-90	4	11/92 - IPDS92	136.3 - 11/92 - IPDS92			
126	Oct-80	2					
127	Oct-91	4					
128	Jun-91	2					
129	May-89	6	6/92-FOLDER	136.3 - 6/89 - IPDS92	3/10/83 - TARGET	202.80 - 10/89 - IPDS92	
129		6		078.5-2/92-FOLDER			
129		6					
129		6		136.3-6/89-FOLDER			
130	Jan-88	3					
131	Jun-91	3			1/30/93 - TARGET		
132	Jun-91	2					
133	Aug-91	3					
134	Jan-91		8/91 - IPDS92		8/27/91 - TARGET		
135	Apr-90	2					
136	Dec-89	3					
137	Jan-91	5					
138	Sep-88	6					
139	Feb-91	2					
140	Aug-91	5					
141	Dec-89	5	5/92-FOLDER	078.5-12/92-FOLDER			
141		5					
141		5		130.0-130.9-5/92-FOLDER			
142	Mar-89	2					
143	Dec-85						
144	Jul-90	5		054.1 - 2/92 - IPDS92			
144		5		054.9 - 7/92 - IPDS92			
144		5			11/16/92 - TARGET		
145	Jan-87	2					
146	Feb-91	6		054.1 - 11/91 - PTF		176.4 - 1/92 - PTF	
146		6		054.6 - 11/91 - PTF			
146		6			2/7/92 - TARGET		

147	Oct-89	5				
148	May-90	3				
149	Jun-91	2				
150	Nov-89	5	1/90-IPDS92 *			
151	Jun-91	4				
152	May-90	3				
153	Apr-90	2				
154	May-91	2				
155	Jul-89	4				
156	Jun-88	5				
157	Dec-91	3				
158	Apr-91	2				
159	Mar-90	3				
160	Jul-91	2				
161	Jul-91	5				
162	Jul-90	5				
163	Sep-90	2				
164	Apr-87	2				
165	May-91	5	10/91 - IPDS92			
165		5	8/91-FOLDER	031.0 - 7/92 - IPDS92		
165		5		078.5-3/92-FOLDER	11/27/92 - TARGET	
165		5		117.9-10/91-FOLDER		
166	Mar-90	3				
167	May-87	3			4/7/93 - TARGET	
168	Jun-91	5		112.5 - 8/92 - PTF		
168		5			12/23/92 - TARGET	
169	Feb-90	5				
170	Nov-90	1				
171	Jul-87	5				
172	Aug-91	4				
173	Nov-89	4	4/90-IPDS92 *			
174	Mar-91	3				
175	Jul-88	2				
176	Jun-90	3			6/18/93 - TARGET	
177	Jun-91	3		130.0 - 11/91 - PTF		
177		3		130.7 - 10/92 - IPDS92		

177		3	1/83 - PTF		6/20/83 - TARGET	
178	Nov-80	2				
179	Feb-89	3	11/89 - IPDS92			
179		3		136.3 - 5/82 - IPDS92		
179		3		031.0 - 9/82 - IPDS92	3/2/83 - TARGET	
180	Aug-90	6	9/90 - IPDS92	136.3 - 9/90 - IPDS92		
180		6	11/90-FOLDER	117.5 - 7/92 - PTF		
180		6		054.9 - 7/92 - PTF		
180		6		031.0 - 9/92 - PTF		
180		6			12/21/92 - TARGET	
180		6		136.3-11/90-FOLDER		
181	Apr-90	2				
182	Oct-91	2		054.1 - 11/92 - IPDS92		
183	Dec-87	4				
184	Sep-88	2				
185	Jan-90	6		130.7 - 4/90 - IPDS92		
185		6		130.0 - 10/90 - PTF		
185		6		054.18 - 12/92 - PTF	4/19/93 - TARGET	
186	Oct-90	3	4/91 - IPDS92	136.3 - 4/91 - IPDS92		
186		3	4/92-FOLDER			
186		3		136.3-4/91-FOLDER		
187	Aug-90	5				
188	Oct-90	4			216.8-11/91-IPDS92 *	
189	Mar-90	2				
190	Aug-87	3				
191	Nov-89	2				
192	Jul-91	2				
193	Jun-91	4				
194	Aug-81	3				
195	Apr-81	2				
196	Sep-91	3				
197	Mar-89	2				
198	Jan-81	2				
199	Aug-90	5				
200	Jan-88	5				
201	Nov-89	5	5/90-IPDS92 *			

225	Sep-91	6			2/21/92 - TARGET	
226	Aug-88	5		054.19 - 3/92 - PTF		
226		5		031.8 - 8/92 - PTF	3/6/93 - TARGET	
226		5		054-3/92-FOLDER		
226		5		115-5/92-FOLDER		
227	Oct-91	5				
228	May-91	3				
229	Oct-88	5	2/89-IPDS92 *			
230	Jan-89	3	5/91 - IPDS92	136.3 - 5/91 - IPDS92		
230		3			2/28/93 - FOLDER	
231	Dec-87	3				
232	Dec-81	1				
233	May-91	3				
234	Nov-91	5		130.8 - 11/92 - PTF	7/16/93 - TARGET	
235	Jul-90	5				
236	Jun-87					
237	Apr-89	2	10/92-FOLDER			
237		2		112.5-9/92-FOLDER		
238	Oct-90	2				
239	Jan-91	2				
240	Mar-91	5				
241	Mar-90	4				
242	Aug-90	5			12/8/91 - TARGET	
243	Oct-91	5	5/92 - PTF	136.3 - 5/92 - PTF		
244	May-91	2				
245	Jun-91	2				
246	Nov-90	6				
247	Mar-91	4			4/27/92 - TARGET	
248	Apr-91	2				
249	Sep-87	2				
250	Nov-89	3				
251	Apr-91	4		054.2 - 1/92 - PTF		
251		4	7/92 - PTF			
251		4		117.5 - 8/92 - PTF		
251		4		054.9 - 8/92 - PTF	211.0 - 7/92 - PTF	
251		4			12/20/92 - TARGET	

252	Dec-90	4		136.3 - 3/92 - IPDS92		
253	Dec-88	3				
254	Aug-90	6		078.5 - 11/92 - PTF		
254		6		031.0 - 11/92 - PTF		
254		6		031.9 - 1/93 - PTF		
254		6			1/22/93 - TARGET	
255	Jan-90	2				
256	Jun-91	3				
257	Feb-91					
258	Mar-90	4				
259	Aug-91	3	12/91-IPDS92 *			
260	Jul-87	3	8/91-FOLDER			
261	Apr-91	3				
262	May-86	2		136.3 - 7/92 - PTF		
263	Jun-87					
264	Dec-89	4				
265	Jul-90	3				
266	Feb-88	6	1/92-FOLDER	054.1 - 11/91 - PTF		
266		6	1/92 - PTF			
267	Aug-90	2				
268	Feb-91	3				
269	Dec-89	5				
270	Oct-90	4				
271	May-91	6	2/92 - IPDS92	136.3 - 2/92 - IPDS92		202.80 - 11/91 - IPDS92
272	Mar-91	3				214.1-4/91-PTF *
273	Oct-89	5				
274	Sep-88	6		054.9 - 9/92 - PTF		
274		6		078.5 - 12/92 - PTF	6/10/93 - TARGET	
274		6		054-9/91-FOLDER		
275	May-90	5	8/91 - PTF	007.2-7/91-FOLDER *		
276	Oct-90	5				
277	Mar-89	5				
278	Jun-90	1			3/6/93 - TARGET	
279	Jan-91	5			10/16/91 - TARGET	
280	May-91	2				
281	Aug-91	2				

282	May-90	3		054.1 - 7/90 - PTF		239.8 - 8/92 - PTF
282		3			1/24/93 - TARGET	202.81 - 12/92 - PTF
283	Aug-90	3				
284	Dec-89	4				
285	Oct-90	3				
286	Jun-88	5				
287	Jan-87	5			12/17/92 - TARGET	
288	Jun-91	2				
289	Aug-90	2	4/91 - PTF	054-3/93-FOLDER		
290	Jan-88	2				
291	Dec-91	5		136.3 - 10/92 - IPDS92		
291		5		136.3-9/92-FOLDER		
292	May-90	6		054.1 - 6/90 - PTF		216.6 - 6/90 - PTF
292		6		136.3 - 10/91 - PTF		178.9 - 7/92 - PTF
292		6		078.5 - 1/92 - PTF		176.1 - 12/92 - PTF
292		6		054.9 - 7/92 - PTF		
292		6		031.9 - 12/92 - PTF		
292		6		054.18 - 12/92 - PTF		
292		6		078.5-4/92-FOLDER		
292		6		136.3-11/90-FOLDER		
293	Jul-89	6	8/91 - PTF	130.7 - 8/91 - PTF		173.9 - 8/91 - PTF
293		6		136.3 - 8/91 - PTF		
293		6		031.0 - 8/91 - PTF		
293		6			8/7/91 - TARGET	
294	Mar-91	2				
295	Apr-90	1				225.4-5/91-IPDS92 *
295		1				225.1 - 12/91 - IPDS92
295		1				225.2 - 5/92 - PTF
296	Nov-90	2				
297	Jun-88	2				
298	Jul-90	3				
298	Dec-90	3				
300	Mar-90	3	2/91 - IPDS92			
300		3	12/90-FOLDER *	078.5 - 10/92 - IPDS92		
301	Feb-91	5		136.3 - 3/92 - PTF	4/22/92 - TARGET	
302	Mar-90	5		115.99 - 11/91 - PTF	6/3/92 - TARGET	

302		5	078.5-8/82-DEATH CERT.		
303	Oct-80	2			
304	Mar-89	5			
305	Aug-80	2			
306	Nov-80	3			
307	Aug-88	5			202.88 - 5/82 - PTF
308	Oct-88	5	136.3-10/81-PTF *		
308		5	078.5 - 5/82 - PTF		
309	Aug-80	5			
310	Apr-81	5			
311	Dec-80	3			
312	Jul-80	2		4/11/83 - TARGET	
313	May-91	5			
314	Jan-86				
315	May-80	3			
316	Jul-80	2			
317	May-80	3	054-4/81-FOLDER		
317		3	4/81-FOLDER		
318	Apr-80	4	136.3 - 8/81 - PTF		212.1 - 3/81 - PTF
318		4	054.1 - 8/81 - PTF		
318		4		5/28/83 - TARGET	
318		4	4/82 - PTF		
319	May-80	4			
320	Sep-81	6			
321	Aug-81	5	054-2/83-FOLDER		
321		5	2/83-FOLDER		
322	Sep-81	3			
323	Jan-81	2			
324	Jun-87				
325	Mar-90	6	130.7 - 2/81 - PTF		
326	Aug-80	3			
327	Jul-89	1			
328	Dec-80	1			
329	Apr-80	2			
330	May-81	4		5/28/83 - TARGET	
331	Dec-89	3	136.3 - 8/82 - PTF		
332	Jul-81	2			

333	Jun-90	5		115.9 - 7/92 - PTF			
333		5		054.9 - 7/92 - PTF		6/5/93 - TARGET	
333		5		115-8/92-FOLDER			
334	Sep-91	3		054.9 - 10/91 - IPDS92			
335	Apr-89	2					
336	Jun-91	3					
337	Apr-90	2					
338	Jan-89	5					
339	Aug-88	3					
340	Oct-91	5					
341	Sep-91	3					
342	Aug-88	4	2/87-IPDS88 *				
342		4		138.3 - 11/89 - PTF			
343	Nov-88	2					
344	Sep-88	2	1/91 - IPDS92			7/14/93 - TARGET	202.81 - 12/88 - IPDS88
344		2	1/91-FOLDER				202.8 - 12/81 - FOLDER
345	Oct-87						
346	Dec-88	5		115.1 - 3/89 - PTF			
346		5		115.95 - 3/89 - IPDS92			
346		5		138.3 - 3/89 - IPDS92			
346		5		115.9 - 6/90 - PTF			
346		5		115.0-1/89-FOLDER		6/18/91 - TARGET	
347	Apr-91	4					
348	Aug-91	8					
349	Nov-88	1	4/90-FOLDER				
350	Dec-85	6					
351	Aug-91	3				6/29/93 - TARGET	
352	Oct-91	3					
353	Jul-92		8/92 - AF	130.9 - 8/92 - AF			
353				031.0 - 11/92 - AF			
353				130.0-11/92-DEATH CERT.		11/11/92 - TARGET	
354	May-89	2		054.13 - 1/92 - PTF			
355	Oct-90	4					
356	Jul-91	3	1/92-IPDS92 *				
357	Oct-90	5	12/91-FOLDER				
357		5		112.5-12/91-FOLDER			

358	Feb-86	3					
359	Feb-81	3					
360	Aug-80	5					
361	Mar-81	3					
362	Jul-80	2	11/81-IPDS92/FOLDER				
363	Feb-80	3	7/81-IPDS92 *				
364	Apr-86	2		117.5 - 5/81 - PTF			
364		2			10/15/91 - TARGET		
365	Sep-89	3					
366	Dec-81	1					
367	Sep-81	2					
368	Sep-89	6	10/89 - PTF	117.5 - 10/89 - PTF			
368		6		054.1 - 10/89 - PTF			
368		6	1/90-FOLDER		8/15/91 - TARGET		
369	Oct-89	5	2/90 - IPDS92				
369		5	12/89-FOLDER *	136.3-5/82-FOLDER			
370	Aug-91	6	1/92 - IPDS92	078.5-1/82-FOLDER			
370		6		031.0 - 6/82 - IPDS92	3/19/93 - TARGET		
370		6	12/91-FOLDER				
370		6		112.5-1/82-FOLDER			
371	Sep-80	2					
372	Sep-80	2					
373	May-81	3					
374	Jun-91	2					
375	Jan-80	4					
376	Jul-91	2					
377	Aug-91	3					
378	Feb-91	3					
379	Oct-90	6		136.3 - 11/90 - IPDS92		216.7 - 3/92 - IPDS92	
379		6		054.9 - 9/92 - IPDS92			
379		6		078.5 - 9/92 - IPDS92			
380	Jan-88	3	4/88-FOLDER				
381	Mar-88	3		136.3 - 7/91 - IPDS92	5/10/93 - TARGET		
382	May-80	2					
383	Sep-80						
384	Sep-80	4		136.3 - 12/82 - PTF			

384		4		054.1 - 12/82 - PTF		
385	Feb-87	2				
386	Sep-81	3				
387	Mar-87	1		117.5 - 2/81 - PTF		
387		1		054-5/87-FOLDER		
388	Jun-81	3				
389	Oct-90	5		138.3-11/80-FOLDER		
390	Aug-87	3				
391	Sep-88	1				
392	Jul-90	4				
393	Nov-90	6		138.3 - 1/81 - IPDS92		
393		6	5/81 - IPDS92			
393		6			8/25/81 - TARGET	
394	Feb-89	2		138.3 - 12/89 - PTF		
394		2	9/82 - PTF	054.8 - 8/82 - PTF		
394		2		054.9 - 10/82 - PTF		
394		2		130.9 - 11/82 - PTF		
394		2		054.0 - 2/83 - PTF	2/22/83 - FOLDER	
394		2		054-11/82-FOLDER		
394		2		130.0-130.9-2/83-FOLDER		
394		2		138.3-4/81-FOLDER		
395	Oct-81	5				
396	Aug-89	2				
397	Jan-90	2				
398	May-90	5		138.3 - 10/81 - PTF		
399	Sep-87	1				
400	Aug-89	5	9/89 - IPDS92			
400		5		0130.0 - 4/80 - PTF		
400		5			10/8/82 - TARGET	
401	Jun-81	4				
402	Jan-90	3				
402		3	7/81-IPDS92 *	078.5-2/81-IPDS92		
402		3		031.0 - 10/81 - IPDS92		
402		3		031.9 - 5/82 - IPDS92		
403	Nov-89	3				
404	Sep-81	1				

405	Mar-91	1				
406	Nov-91	3				
407	Apr-89	6		136.3 - 11/91 - PTF	10/28/92 - TARGET	
408	Oct-90	2				
409	Apr-89	3				
410	Jan-89	6				
411	Oct-91	3				
412	Jul-90	2		054.0 - 9/92 - PTF		
412		2	10/92 - PTF			
413	Feb-80	1				
414	Feb-91	3		054-5/93-FOLDER		
414		3	4/93-FOLDER			
415	Oct-88	4			9/29/92 - TARGET	
416	Mar-91	4				
417	Mar-89	2				
418	Aug-89	1				217-11/90-IPDS92 *
419	Oct-88	5				
420	Sep-91	5				
421	Oct-91	6	7/92 - IPDS92	054-3/93-DEATH CERT.	3/25/93 - FOLDER	
422	Jun-91	5	1/92 - IPDS92			
422		5			12/19/92 - TARGET	
423	Mar-89	3		136.3 - 8/89 - PTF		162.9 - 8/89 - PTF
423		3				173.9 - 8/89 - PTF
423		3				173.8 - 8/91 - PTF
423		3				176.4 - 1/93 - PTF
423		3			1/16/93 - TARGET	176.0 - 1/93 - PTF
424	Apr-91	5				
425	Apr-88	4				
426	May-91	3	10/92-IPDS92 *			
427	Jul-89	5	9/89 - IPDS92			
427		5		054.3 - 2/90 - IPDS92		
428	Aug-80	2				
429	Mar-90	5				
430	Feb-91	5		078.5-12/91-IPDS92 *		
430		5		031.0 - 2/92 - PTF		
430		5		031.8 - 4/92 - IPDS92		

430		5		054-1/92-FOLDER			
430		5		078.5-1/92-FOLDER			
431	May-89	3					
432	Jan-89	1					
433	Jun-89	2					
434	Jan-88	5	12/89 - IPDS92	112.5-2/93-DEATH CERT.			
434		5			2/1/83 - TARGET		
435	Jul-80	5		136.3 - 8/91 - IPDS92			
435		5		054.9 - 5/92 - IPDS92			
435		5	11/92 - IPDS92		11/26/92 - TARGET		
436	Dec-88	5					
437	Dec-89	3					
438	Dec-90	2					
439	Feb-91	6		054.1 - 5/91 - IPDS92	7/6/92 - TARGET		
440	Aug-90	2		007.2 - 11/92 - PTF	3/31/93 - TARGET		
441	Jun-91	2					
442	Feb-89	5					
443	Sep-90	5					
444	Oct-89	2					
445	Mar-81	1					
446	Nov-81	5					
447	Oct-80	2					
448	Aug-81	3					
449	Sep-89	2					
450	Nov-88	4			10/18/92 - TARGET		
451	Oct-90	4	6/91-FOLDER				
451		4		136.3-8/90-FOLDER			
452	Jun-91	5		031.0 - 12/91 - IPDS92		173.3 - 8/91 - IPDS92	
452		5	6/92 - PTF	136.3 - 6/92 - PTF		173.8 - 8/91 - IPDS92	
452		5		136.3-6/92-DEATH CERT.		173.9 - 12/91 - IPDS92	
452		5			6/24/92 - TARGET	176.9 - 6/92 - PTF	
453	Jan-91	5					
454	Apr-91	1		054.8 - 11/91 - IPDS92			
454		1		054.9 - 11/92 - PTF			
455	Apr-90	5					
456	Feb-91	2					

467	Apr-91	3					176-991-FOLDER
468	Mar-91	4					
469	Apr-90	3					
470	Apr-91	5	8/91-FOLDER				
471	Mar-87	5	7/87-IPDS88				
472		5	4/87-FOLDER *				
473	Jan-89	4					
474	Apr-89	1					
475	Oct-90	4					
476	Oct-91	6					
477	Jul-88	2		136.3-7/91-PTF *			
478		2		078.5-12/91-PTF			
479		2		078.5-1/92-FOLDER			
480		2		136.3-7/91-FOLDER			
481	Aug-88	5					
482	Jun-87	3	12/89-FOLDER		1/25/93-TARGET		
483		3		136.3-1/92-DEATH CERT.			
484	Jan-91	5		031.0-3/92-PTF			
485		5		115.0-3/92-PTF			
486		5		115.0-4/92-DEATH CERT.	4/9/92-TARGET		
487	Apr-90	2				173-998-FOLDER	
488	Jul-90	3	10/91-PTF *				
489	Oct-88	5					
490	Feb-91	3		054.13-3/91-IPDS92			
491	Feb-90	3					
492	Jun-91	4					
493	Feb-91	3					
494	Oct-90	2					
495	Jul-90	5			4/17/93-TARGET	176-4/93-FOLDER	
496	Jul-91	5	8/91-IPDS92	136.3-6/92-FOLDER *			
497		5		136.3-6/92-AF			
498	Mar-89	5		031.8-8/91-PTF			
499		5	9/91-PTF				
500		5		136.3-9/91-PTF			
501		5			9/20/91-TARGET		
502	Nov-87	3					

482	Nov-87	3				173.1 - 3/82 - PTF
482		3			2/9/83 - FOLDER	176.8 - 3/82 - PTF
483	Aug-91	3				
484	Mar-89	2		007.2-4/80-IPDS92/FOLDER	8/9/82 - TARGET	
484		2		112.5-7/82-FOLDER		
485	Jul-91	2				
486	Mar-91	5				
487	Apr-91	5				
488	Nov-89	5				
489	Sep-90	5				
490	Dec-89	5				
491	Sep-90	4				
492	Mar-89	4				
493	Apr-91	5	5/91 - IPDS92	112.5-4/92-FOLDER		
493		5		054.13 - 5/91 - IPDS92		
493		5		117.5 - 4/92 - IPDS92		
493		5		117.5-4/92-FOLDER		
494	May-81	3			10/7/87 - TARGET	
495	Feb-87	2				
496	Mar-91	2				
497	Jan-91	4		054-5/91-FOLDER *		
497		4	1/92 - IPDS92	130.7-9/91-IPDS92		
497		4	10/91-FOLDER	054.9 - 1/92 - IPDS92		
497		4		078.5 - 8/92 - PTF	7/8/93 - TARGET	
497		4				
497		4		130.0-130.9-10/91-FOLDER		
497		4		136.3-5/91-FOLDER		
498	Jun-90	6				
499	Jul-87	1			7/14/83 - TARGET	153.9 - 2/93 - PTF
500	Sep-89	4	4/92 - PTF			176.3 - 11/91 - PTF
500		4	3/92-FOLDER	031.0 - 5/92 - PTF		176.9 - 4/82 - PTF
500		4		078.5 - 5/92 - PTF		235.4 - 4/82 - PTF
500		4		054.1 - 5/92 - PTF		176.0 - 1/93 - PTF
500		4			11/2/93 - TARGET	176-1/83-DEATH CERT.
501	Apr-81	4				
502	Feb-91	2				

503	Mar-90	4	7/90 - PTF				176-10/92-FOLDER
503		4	10/90-FOLDER				
504	May-89	1					
505	Sep-89	5					
506	Aug-90	5		136.3 - 6/91 - PTF	1/22/93 - TARGET		
507	Nov-90	3					
508	Oct-91	2					
509	Jun-90	4					
510	Jan-91	5	5/91-FOLDER				
511	May-90	4					
512	Mar-91	5					
513	Jul-90	5					
514	Jul-91	3	8/92-IPDS92 *			173.7 - 8/92 - IPDS92	
514		3				173.5 - 8/92 - IPDS92	
515	May-90	2					
516	Dec-89	5			1/23/93 - TARGET		
517	Mar-91	3					
518	Sep-88	6		136.3 - 9/89 - PTF	2/3/93 - FOLDER		
519	Jan-91	2					
520	Dec-87	5					
521	Apr-91	2					
522	Aug-91	2					
523	Jan-87	2	12/91-IPDS92 *				
524	Jan-87	1					
525	Feb-90	3					
526	Oct-90	4		054.9 - 8/92 - IPDS92			
527	Mar-87	2					
528	Jun-89	5	11/92-PTF/FOLDER				
529	Jul-91	5	8/92 - PTF			176.8 - 1/92 - PTF	
529		5				176.0 - 5/92 - PTF	
529		5				176.1 - 8/92 - PTF	
529		5				176.4 - 9/92 - PTF	
529		5				173.1 - 11/92 - PTF	
529		5	136.3 - 9/92 - PTF			202.80 - 12/92 - PTF	
529		5			2/1/93 - TARGET	173.3-9/91-IPDS92 *	
530	Aug-90	2					
531	Dec-88	5	3/89 - IPDS92				

531		5			130.9 - 8/92 - PTF	3/31/93 - TARGET	
532	Apr-91	5					
533	Nov-89	5			136.3-3/91-FOLDER		
534	Sep-90	2			136.3 - 6/92 - IPDS92		178.9 - 6/92 - IPDS92
534		2			054.9 - 6/92 - IPDS92		
535	Feb-91	3					
536	Jul-89	5		1/93 - PTF	136.3 - 1/93 - PTF		
537	Jan-89	1					
538	Mar-89	2					
539	Jul-89	5		1/91 - PTF	136.3 - 1/91 - PTF		
539		5		12/90-FOLDER			
540	May-91	3					
541	Aug-88	2			136.3 - 3/89 - PTF		
541		2			112.5-2/91-FOLDER		
542	Dec-90	5		12/92-DEATH CERT.	054.1 - 6/91 - IPDS92		
542		5			078.5 - 12/91 - IPDS92		
542		5			031.8 - 5/92 - IPDS92		
542		5			054-12/92-DEATH CERT.	12/24/92 - TARGET	
542		5			078.5-11/91-FOLDER		
542		5			112.5-2/92-FOLDER		
543	Apr-91	5			136.3 - 9/92 - IPDS92		
544	Jan-89	2					
545	Sep-89	2					
546	Sep-90	5					
547	Aug-87	5					
548	Feb-91	6		1/91-FOLDER			
548		6			112.5-3/91-FOLDER		
549	Jun-89	5		10/89-IPDS92 *			
550	Aug-91	5			136.3 - 3/92 - IPDS92		
550		5			054.79 - 3/92 - IPDS92		
550		5			054.9 - 6/92 - IPDS92	4/19/93 - TARGET	
551	May-90	6		10/90 - IPDS92			
551		6		4/91-FOLDER *			
552	Jun-89	5					
553	Aug-91	3					

554	Apr-91	2							
555	Apr-91	4	2/92 - IPDS92				1/9/93 - TARGET	202.80 - 10/92 - IPDS92	
556	Apr-91	3							
557	May-91	4				078.5 - 1/92 - IPDS92			
557		4	9/92 - IPDS92						
558	Oct-91	5							
559	Feb-88	6							
560	Oct-88	2							
561	Mar-91	1							
562	Oct-91	6				130.9 - 10/92 - AF	10/13/92 - TARGET		
563	Sep-90	2	3/92-PTF *						
564	Oct-90	5	11/92-IPDS92 *						
565	Jan-89	4	11/90-FOLDER			031.0 - 8/91 - PTF		201.94 - 3/91 - PTF	
565		4						201.70 - 4/91 - PTF	
565		4						201.98 - 4/91 - PTF	
565		4						201.76 - 6/91 - PTF	
565		4				031.9 - 7/92 - PTF		201.78 - 6/91 - PTF	
565		4				130.9 - 7/92 - PTF		201.90 - 8/91 - PTF	
565		4					10/28/92 - TARGET	201.91 - 10/92 - PTF	
565		4						202.8 - 4/91 - FOLDER	
565		4							
566	Nov-87	1							
567	Feb-91	2							
568	Dec-88	5	1/93 - PTF			136.3 - 1/93 - PTF			
568		5				078.5 - 4/92 - NAVY	4/24/93 - TARGET		

**TABLE 6. CD4 COUNTS AND STAGING FROM DATE LAST SEEN AND SUBSEQUENT CD4 COUNTS
AND STAGING OBTAINED FROM CLAIMS FOLDER DATA**

ID	Last seen	CD4 Cnt	CD4 Cnt 1-Date	CD4 Cnt 2-Date	CD4 Cnt 3-Date	CD4 Cnt 4-Date	Orig. WR Stg.	W	y 1	WR Stg 2	WR Stg 3
1	May-89	882	575-5/92				1				
2	Jun-91	585					2				
3	Oct-89	391	391-1/90				4		IV-1/90		
4	Dec-86	462					2				
5	Jan-89	233					5		III-2/89		
6	Feb-91	650					2				
7	Mar-88										
8	Aug-91	480					1				
9	Jun-90	394					4				
10	Jan-89	282	282-2/89				5		IV-2/89		
11	Jul-87	790					1				
12	May-90	270					3				
13	Sep-89	375					4				
14	Jan-91	218	281-2/91				5		V-2/91		
15	May-88	20					5				
16	Oct-90	188					3				
17	Jun-91	542					2				
18	Mar-86	360					4				
19	Jun-90	501					2				
20	Aug-88	771					2				
21	Jun-88	353	400-9/88				3		III-9/88		
22	Apr-91	351					3				
23	Nov-90	362					5				
24	Aug-91	119					3				
25	Dec-89	302					3				
26	May-89	282	400-11/89	078-10/91			3		IV-11/89		
27	Jan-89	285					3				
28	Sep-90	1133					2				
29	Apr-90	367	427-5/90	236-7/92			4		IV-5/90		
30	Oct-90	135					3				
31	Apr-90	132					5				
32	Jul-87	502	500-10/87				2		II-10/87		

104	Nov-88	259							5			
105	Sep-89	372							3			
106	Jan-89	370	370-1/82						3			
107	May-90	306	032-8/82						3			
108	Nov-88	690							2	5-1/89		
109	Mar-91	58							6			
110	Jun-91	539							2			
111	Oct-91	237							5			
112	Jun-82											
113	Aug-91	8							6			
114	Feb-91	287							3			
115	Sep-91	308	400-5/89						5			
116	Jul-87									4A-5/89		
117	Jun-88	180							5			
118	Nov-90	656	656-10/89						1	10-1/89		
119	Jun-91	456							2			
120	Jun-91	352							5			
121	Mar-91	464							2			
122	May-87	316							3			
123	May-91	493							1			
124	Mar-90	448							3			
125	Oct-90	289							4			
126	Oct-90	434							2			
127	Oct-91	281							4			
128	Jun-91	428							2			
129	May-89	256	30-9/82						6			
130	Jan-88	270							3			
131	Jun-91	9							3			
132	Jun-91	1116							2			
133	Aug-91	408							3			
134	Jan-91											
135	Apr-90	636							2			
136	Dec-89	317							3			
137	Jan-91	184							5			
138	Sep-89	77							6			
139	Feb-91	499							2			

140	Aug-81	276							5		
141	Dec-89	268	40-5/82	020-12/82					5		
142	Mar-89	558							2		
143	Dec-85	515	453-1/86	310-3/88	400-4/80						
144	Jul-80	15							5		
145	Jan-87	780	311-4/85						2		
146	Feb-81	7							6		
147	Oct-89	135							5		
148	May-90	315							3		
149	Jun-81	718	844-10/81						2		
150	Nov-89	524							5		
151	Jun-81	304							4		
152	May-80	288							3		
153	Apr-80	405							2		
154	May-81	882							2		
155	Jul-89	240							4		
156	Jun-89	338							6		
157	Dec-81	252							3		
158	Apr-81	855							2		
159	Mar-80	287							3		
160	Jul-81	901							2		
161	Jul-81	283							6		
162	Jul-90	185							5		
163	Sep-80	615							2		
164	Apr-87	515	515-4/89						2		
165	May-91	25	25-8/91	009-8/91	000-6/82				5		VI-8/82
166	Mar-90	389							3		
167	May-87	258							3		
168	Jun-91	106							5		
169	Feb-90	285							6		
170	Nov-90	676							1		
171	Jul-87	381							5		
172	Aug-91	158							4		
173	Nov-89	239							4		
174	Mar-91	276							3		
175	Jul-88	675							2		

176	Jun-80	79							3			
177	Jun-81	69							3			
178	Nov-80	443							2			
179	Feb-89	397							3			
180	Aug-80	87							8	VI-11/80		
181	Apr-80	535	552-5/81						2	V-2/81		
182	Oct-81	421	421-11/81						2	II-11/81		
183	Dec-87	184							4			
184	Sep-88	440							2			
185	Jan-80	19							8			
186	Oct-80	256							3			
187	Aug-80	238							8	V-2/81		
188	Oct-80	297							4			
189	Mar-80	569							2			
190	Aug-87	182	182-8/87						3			
191	Nov-89	440	440-12/89						2	II-12/89		
192	Jul-81	1046							2			
193	Jun-81	389							4			
194	Aug-81	339							3			
195	Apr-81	955							2			
196	Sep-81	367							3			
197	Mar-89	405							2			
198	Jan-81	1285							2			
199	Aug-80	334							5			
200	Jan-88	174							5			
201	Nov-89	245							5			
202	Mar-89	335							3			
203	Mar-81	34							6			
204	Jul-81	247							5			
205	Mar-81	145							5			
206	Nov-88	171	171-12/88						5			
207	Dec-80	343							3			
208	Dec-81	483	211-8/82						2	V-1/82		
209	Jun-89	324							3			
210	Feb-81	219							3			
211	Oct-81	65							5			

392	Jul-80	200							4		
393	Nov-80	80							6		
394	Feb-89	478	2/11/92						2		
395	Oct-91	433							6		
396	Aug-89	570							2		
397	Jan-90	595							2		
398	May-80	324							5		
399	Sep-87	424							1		
400	Aug-89	171							5		
401	Jun-91	460							4		
402	Jan-90	51							3		
403	Nov-89	208	170-12/91						3	V-4/90	
404	Sep-91	481							1		
405	Mar-91	864	954-4/91	913-8/91					1	(4/91)	
406	Nov-91	389							3		
407	Apr-89	16							6		
408	Oct-90	412							2		
409	Apr-88	407							3		
410	Jan-89	498							6		
411	Oct-81	335							3		
412	Jul-90	672	30-8/92						2		
413	Feb-90	637							1		
414	Feb-91	292	18-5/93						3	VI-5/93	
415	Oct-88	298							4		
416	Mar-91	304							4		
417	Mar-89	528							2		
418	Aug-89	528							1		
419	Oct-86	320							6		
420	Sep-91	42							6		
421	Oct-91	30							6		
422	Jun-91	23							5	V-12/92	
423	Mar-89	117							3		
424	Apr-91	360							5		
425	Apr-89	207							4		
426	May-91	506							3		
427	Jul-89	301							5		

536	Jul-89	237							5			
537	Jan-89	895							1			
538	Mar-89	676							2			
539	Jul-89	228						V-1/81	5			
540	May-91	357							3			
541	Aug-88	530	530-10/88	517-3/89					2			
542	Dec-80	9	001-2/81	015/1/81				V-2/81	5	VI-2/82		
543	Apr-81	28							5			
544	Jan-89	1128							2			
545	Sep-89	535							2			
546	Sep-90	141	141-10/90						5			
547	Aug-87	355							6			
548	Feb-91	27							6			
549	Jun-89	24							5			
550	Aug-91	24							5			
551	May-90	771	862-7/90	742-1/81	813-3/81	1242-7/81		VI-10/90	6			
552	Jun-89	305							5			
553	Aug-91	28							3			
554	Apr-81	516							2			
555	Apr-81	143							4			
556	Apr-81	352							3			
557	May-91	11							4			
558	Oct-81	181							5			
559	Feb-88	104							6			
560	Oct-88	899	889-12/88					II-12/88	2			
561	Mar-91	594							1			
562	Oct-91	224							6			
563	Sep-80	515							2			
564	Oct-80	161							5			
565	Jan-88	90	042-3/81						4			
566	Nov-87	951							1			
567	Feb-91	855							2			
568	Dec-88	388							5			

TABLE 7. FREQUENCY OF AIDS RELATED CONDITIONS BY SOURCE OF DATA

	IPDS	PTF	Air Force	Navy	Folder*
003.1 - Salmonella septicemia	2				
007.2 - Cryptosporidiosis, isosporidiosis	2	3			3
008.3 - Unexplained diarrhea > 1 month					
010 (all) - Extrapulmonary tuberculosis					
012-018 - Extrapulmonary tuberculosis	1	1			
011 (all) - Pulmonary tuberculosis	3	2	1		
031 (all) - Atypical mycobacteriosis	9	7			1
031.0 - MAI	8	13	1		2
038.9 - Generalized sepsis	1	1			
042.0 - HIV with specified infections	37	43	3		
042.1 - HIV causing other specified infections	36	28	1		
042.2 - HIV with specified malignant neoplasms	13	7			
042.9 - AIDS with or without other conditions	47	57	3		
043.0 - HIV causing lymphadenopathy	17	4	1		
043.1 - HIV causing specified diseases of CNS	13	6			
043.2 - HIV causing other disorder of immune mechanism					
043.3 - HIV causing other specified conditions	22	12	3		
043.9 - ARC with or without other conditions	9	17			
044.0 - HIV infection causing specific acute infections	1	1			
044.9 - HIV infection NOS	387	48	4		
048.3 - Progressive multifocal leukoencephalopathy	1	1			
063.8 - Herpes zoster (disseminated)					
063.9 - Herpes zoster	9	5			
064 (all) - Herpes simplex	16	22			15
078.5 - Cytomegalovirus	10	12		1	12
110.1 - Fungal nail infection	3	1			
112.0 - Oral candidiasis	77	44	1		48
112.5 - Esophageal candidiasis		1			11
114 (all) - Candididomycosis					
115 (all) - Histoplasmosis	1	4			4
116.0 - Blastomycosis					
117.5 - Cryptococcosis	3	7			1
117.9 - Disseminated endemic mycosis					2
130.0 - Toxoplasmosis		4			
136.3 - Pneumocystis carni pneumonia	28	38	1		17
140-239 - Neoplasms	16	21			
173 (all) - Kaposi sarcoma (th Oct. 1991)	6	5			3
176 (all) - Kaposi sarcoma (after Oct. 1991)	2	9			5
180 (all) - Cervical carcinoma					
202-202.8 - Lymphoma					2
233.1 - Cervical carcinoma in situ					
278.14-278.16 - AIDS codes	1				
320.9 - Bacterial meningitis	1				
482.9 - Bacterial pneumonia	1	3			
528.5 - Recurrent oral ulceration/angular cheilitis	2				
528.6 - Hairy leukoplakia	17	1	1		
530.1 - Esophageal candidiasis	11	9			
886.9 - Pruritus		2			
780.6 - Fever > 1 month	23	33	2		
M9140/3 - Kaposi sarcoma					
M959-M963 - Lymphoma					
M964 - Reticulosarcoma					
M965-M966 - Hodgkin's disease					
M969 - Lymphomas, nodular					
V73.70 - HIV +; WR 0					
V73.71 - HIV +; WR 1					
V73.72 - HIV +; WR 2	12				
V73.73 - HIV +; WR 3	17				
V73.74 - HIV +; WR 4	8		1		
V73.75 - HIV +; WR 5	14				
V73.76 - HIV +; WR 6	4				
V73.79 - HIV +; WR unspecified	5				
V72.80 - HIV negative					
V72.81 - HIV + (neg. Western Blot)					
V72.82 - HIV + (pos. Western Blot)	2				
V72.89 - Other lab exam					

* Folder data abstracted only includes "critical diagnoses" listed in Table 5

TABLE 8. VITAL STATUS BY GENDER

	Male	Female	Total
Alive	445	18	463
Deceased	102	3	105
	547	21	568

TABLE 9. DECEASED BY STAGE AT DATE LAST SEEN

	Deceased	Total in Stage	Percent in Stage
1	2	34	6%
2	9	138	7%
3	18	135	13%
4	11	60	18%
5	41	145	28%
6	21	39	54%
	102	551	